Fwd: 7 WTC Construction Class - Message (Plain Text)

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Extra line breaks in this message were removed.

From: Shyam Sunder [sunder@nist.gov]
Sent: Thu 5/27/2004 4:29 PM
To: terri@nist.gov; rbukowski@nist.gov
Cc: hsl@nist.gov; ncarino@nist.gov; jgross@nist.gov; cauffman@nist.gov; cheri.Sawyer@nist.gov; john.eichner@nist.gov
Subject: Fwd: 7 WTC Construction Class

WTCI-706-P

Attachments: FLM00644.TIF (388 KB); FLM00643.TIF (341 KB)

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>X-Sieve: CMU Sieve 2.2
>From: "Bhol, Saroj" <sbhol@panynj.gov>
>To: "'therese.mcallister@nist.gov'" <therese.mcallister@nist.gov>
>Cc: "Fadavi, Ali" <afadavi@panynj.gov>, "Lin, C. John" <jlin@panynj.gov>,
>    "Shyam Sunder (E-mail)" <sunder@nist.gov>
>Subject: 7 WTC Construction Class
>Date: Thu, 27 May 2004 16:14:57 -0400
>X-Mailer: Internet Mail Service (5.5.2653.19)
>X-MailScanner:
>X-MailScanner-From: sbhol@panynj.gov
>
>Therese,
>I left a message for you this morning with the information on  7 WTC
>construction classification. 7 WTC Drawing PA-0 has the information and
>it's 1B. You should have the drawing; I am attaching 2- TIF images, just in case.
>Both are from the same drawing; read them together for the drawing number.
>See the upper left corner, general notes for office building and also
>the hand drafted note on the upper right corner. You should also look
>at section
>5.3.3 in FEMA World Trade Center Building Performance Study Report
>(FEMA 403/May 2002) that has the information on the construction classification.
>Thanks
>Saroj
>  <<FLM00644.TIF>>  <<FLM00643.TIF>>
>
>
>
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start | Labels for... | 2 Micro... | Adobe Acr... | 6:11 PM

706-P

Cheri Sawyer

From: Shyam Sunder [sunder@nist.gov]
Sent: Thursday, May 27, 2004 4:29 PM
To: terri@nist.gov; rbukowski@nist.gov
Cc: hsl@nist.gov; ncarino@nist.gov; jgross@nist.gov; cauffman@nist.gov; cheri.Sawyer@nist.gov; john.eichner@nist.gov
Subject: Fwd: 7 WTC Construction Class

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>Cc: "Fadavi, Ali" <afadavi@panynj.gov>, "Lin, C. John" <jlin@panynj.gov>,
>    "Shyam Sunder (E-mail)" <sunder@nist.gov>
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>Thanks
>Saroj
>  <<FLM00644.TIF>>  <<FLM00643.TIF>>
>
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Dr. S. Shyam Sunder
Acting Deputy Director
Building and Fire Research Laboratory
National Institute of Standards and Technology Gaithersburg, MD 20899-8600
Tel.: 301-975-6850; Fax: 301-975-4032
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WTCI-706-P

30. ALL WIRE GLASS IN RATED DOORS AND WINDOWS WILL BE OF A TYPE APPROVED L THE B.S.A.

31. ALL OPENINGS TO ELEVATOR SHAFTS WILL BE PROVIDED WITH DOORS HAVING A 1 1/2 HOUR RATING. ALL DOORS TO BE SELF-CLOSING AND AT OPTION OF THE OWNER PROVIDED WITH A VISION PANEL OF APPROVED TYPE CLEAR WIRE PLATE GLASS.

32. CORRIDORS AND EXITS PASSAGEWAYS SHALL AVE A CLEAR HEIGHT OF 7'-6" FOR AT LEAST 75% OF THE FLOOR AREA WITH NO POINT LESS THAN 7'-0" IN HEIGHT PROJECTIONS BELOW THE CEILING SHALL NOT OBSTRUCT FULL VIEW OF EXITS(BSA. 120-604.2a)

33. ALL DOORS SHALL BE MIN. 6'8" HIGH UNLESS OTHERWISE NOTED.

34. ALL ELEVATOR DOORS SHALL HAVE ELECTRIC INTERLOCKS IN ACCORDANCE WITH REFERENCE STANDARD RS18-1 SAFETY CODE.

35. EXIT DOORS SHALL BE READILY OPENABLE AT ALL TIMES FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE. DOORS OPENING INTO INTER-OR ENCLOSED STAIR SHALL BE LOCKED ON THE STAIR SIDE ABOVE THE STREET FLOOR EXCEPT THAT AT INTERVALS OF 4 STORIES OR LESS DOORS SHALL BE OPENABLE FROM THE STAIR SIDE WITHOUT THE USE OF THE KEY TO PERMIT READILY AT EVERY FLOOR, AND EXCEPT THAT DOORS MAY BE LOCKED TO PREVENT ACCESS TO THE STAIRS FROM THE OUTSIDE AT THE STREET LEVEL.

IF NORMAL RE-ENTRY FROM THE STAIR SIDE IS TO BE RESTRICTED TO EVERY FOURTH FLOOR, THE LOCKED DOORS SHALL BE EQUIPPED WITH A RELEASE SYSTEM COMPLYING WITH THE REQUIREMENTS OF CODE SECTION C26-604.4(JJ)1 & 2 & 6 REFERRED TO REFERENCE STANDARDS.

36. NO PIPES, MEDICINE CABINETS, ETC. SHALL ENCROACH UPON FIRE RATED PARTITIONS ENCLOSING PUBLIC CORRIDORS, STAIRS, ELEVATOR SHAFTS OR VENT SHAFTS.

37. ALL TOILETS SHALL HAVE TILE FLOORS AND WAINSCOTE NOT LESS THAN 6" HIGH.

38. ALL INTERIOR TOILETS SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH WITH A.S. C26-1207.3

39. SUSPENDED CEILINGS SHALL COMPLY WITH METAL RUNNERS, FURRING AND HANGERS AS PER A.C. C26-304.12 FOR CL. 1-5 F. P. BUILDINGS.

40. EXTERIOR STONE OR ASHLAR FACED WALLS SHALL COMPLY WITH REFERENCE STANDARD RS10-1.

41. ALL LOT LINE WINDOWS WILL HAVE AUTOMATIC CLOSING ASSEMBLIES AND HAVE 3/4 HR. RATINGS AS PER SEC. C26-1503.1

42. ALL CLEANING OF WINDOWS WILL BE IN CONFORMITY WITH THE WINDOW CLEANING CODE.

43. WHERE GLASS FACING IS USED THICKNESS AND AREA COMPLIES WITH SUB-ARTICLE 10:1.D.

44. CONCRETE BLOCK WILL COMPLY WITH REFERENCE STANDARD RS 10.1

45. CONCRETE BLOCKS SHALL BE TYPE APPROVED BY BOARD OF STANDARDS AND APPEALS.

46. ALL MASONRY WALLS SHALL BE LAID WITH MORTAR CONSISTING OF ONE (1) PART PORTLAND CEMENT, ONE (1) PART LIME, AND SIX (6) PARTS SAND AS PER RS10.

47. ELEVATOR SHAFTS SHALL BE ENCLOSED WITH 3" SOLID GYPSUM BLOCKS. 3" HOLLOW GYPSUM BLOCK PLASTERED ONE SIDE. 4" SOLID CONCRETE BLOCK. OR DRY WALL CONSTRUCTION HAVING A FIRE RESISTIVE RATING OF 2 HRS.

48. INTERIOR REQUIRED STAIR SHALL BE ENCLOSED WITH HOLLOW GYPSUM BLOCK 3" THICK PLASTERED ONE SIDE. 3" SOLID GYPSUM BLOCK. 4" SOLID CONCRETE BLOCK, OR DRY WALL CONSTRUCTION HAVING A FIRE RESISTIVE RATING OF 2 HRS.

49. ALL VENT DUCT SHAFTS SHALL BE ENCLOSED WITH 4" SOLID CONCRETE BLOCK OR ANY 2 HOUR ENCLOSURE. 1-1/2 HOUR AUTOMATIC CLOSING FIRE DAMPERS TO BE INSTALLED IN VENT DUCTS WHEN THEY PIERCE PUBLIC CORRIDORS.

50. WHERE REQUIRED, AREAS ON 1ST FLOOR TO BE SPRINKLERED AS PER SECTION C26-604.3.

51. MARBLE VENEER TO BE APPLIED ACCORDING TO RULES OF THE BOARD OF STANDARDS AND APPEALS.

52. EXTERIOR PANEL WALLS TO BE ANCHORED TO COLUMNS BY GALVANIZED METAL ANCHORS NOT LESS THAN 1/4" X 2-1/4" HOOKED AROUND FLANGES OF COLUMNS.

53. FACE BRICK ON EXTERIOR WALLS WILL BE BONDED TO BACK-UP BLOCK WITH 16ga. COPPER OR ZINC CORRUGATED WALL TIES 7/8" X 7" FOR THE SPANDREL WALL. THE WALL TIES WILL BE PLACED EVERY FOUR COURSES VERTICALLY AND ONE FOOT (1'-) APART HORIZONTALLY. B.S. & A. APPROVED TIES.

54. EXTERIOR WALL COLUMNS "CLIMB ENCASED IN MASONRY WALLS" SHALL BE FIRE-PROOFED ON THE EXTERIOR SIDE WITH 3-3/4" BRICK AND ON THE INTERIOR SIDE WITH 2" SOLID GYPSUM. 2" HOLLOW GYPSUM. 2" CONCRETE BLOCK OR SPRAY-ON F.P. ALL ABOVE SHALL BE PLASTERED WITH 1/2" GYPSUM PLASTER OR 5/8" GYPSUM WALLBOARD. EXTERIOR SIDE OF COLUMNS TO BE PAINTED WITH WATERPROOF MASTIC

55. INTERIOR COLUMNS SHALL BE FIREPROOF WITH MATERIALS AND HAVE RATING CONFORMING WITH SECTION C26-612.3. RS 3-1.

56. BEAMS AND GIRDERS SHALL BE FIREPROOFED WITH 2" GRADE 1 PORTLAND CEMENT CONCRETE. 2" GYPSUM PLASTER. OF SPRAY-ON F.P. OR OTHER MATERIALS RENDERING A 2 HR. FIRE RATING.

57. A STANDPIPE SYSTEM WILL BE PROVIDED IN THE BUILDING UNDER A SEPARATE APPLICATION. LOCATION OF STANDPIPES, ETC., WILL COMPLY WITH PROVISIONS OF SUB-ARTICLE 1702.0 OF B.C.

58. ALL OPEN AREAS SHALL BE DRAINED AS PER REF. STD 16. P110.2

59. SEPARATE ELEVATOR APPLICATION WILL BE FILED.

60. PROVIDE VILWING MIRRORS IN ELEVATORS AS PER SECTION C26-20.03 H.M.C. AND DEPT. RULES AND REGULATIONS.

61. FIRE PREVENTION APPLICATION WILL BE FILED IF REQUIRED FOR ALL INSTALLATIONS.

62. WOOD SHALL BE USED ONLY WHERE PERMITTED BY C26-512.5. WOOD REQUIRED TO BE F.PROOFED SHALL BE TESTED IN ACCORDANCE WITH REFERENCE STANDARDS RS 3-3 AND PS 5-4.

63. ROOFING TO BE AS PER SECTION C26-503.7, AND TO BE OF TYPE "A" B TO COMPLY WITH RS 5-4 & 5-15.

64. TEMP. OF BUILDING TO BE MAINTAINED AS PER C26-1204.1, AND RS 12-1 AND TABLE (3-1).

65. ROOM FINISHES (1) CONFORM TO C26-504.10 AND TABLE 5-6. SUITS TO HAZARD CLASS 'B' FOLLOWING F.R.B BOROUGH DEVELOPMENT RATING OF 50.
ROOMS TO HAVE CLASS B FINISHES.
ROOMS IN OCCUPANCY GROUP C TO HAVE CLASS B FINISHES.
ROOMS IN OCCUPANCY GROUP E TO HAVE CLASS C FINISHES.
CORRIDORS IN OCCUPANCY GROUP E TO HAVE CLASS B FINISHES & A SMOKE DEVELOPED RATING OF 25 AND FLAME-TY - PARA C26-504.10(B).

66. HOUSE NUMBERS WILL BE PROVIDED AS PER BOROUGH PRESIDENTS RULES AND REGULATIONS

67. FLOOR NUMERALS WILL BE PROVIDED ON ALL FLOORS IN STAIR HALLS AND IN PUBLIC HALLS NEAR ELEVATORS AS PER DEPARTMENT RULES AND REGULATIONS.

68. GARAGE SHALL BE USED EXCLUSIVELY FOR THE PARKING OF VEHICLES HAVING FUEL STORAGE TANKS OF 25 GAL., CAPACITY OR LESS. NO REPAIR, BODY WORK OR PAINTING OF VEHICLES MAY BE CONDUCTED FOR MAY ANY GASOLINE, OIL, ETC. BE DISPENSED.

69. GARAGE SHALL BE PROVIDED WITH MECHANICAL VENTILATION AS PER SEC. C26-709.7. AIR SUPPLY SHALL BE TAKEN FROM AN UNCONTAMINATED SOURCE. EXHAUST OUTLETS SHALL BE LOCATED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE-13 WITH ONE-HALF OF THEM LOCATED 6 IN. ABOVE FLOOR LEVEL. AN INSPECTION AND TEST OF THE COMPLETED SYSTEM SHALL BE MADE AS PER SEC. C26-1701.2 AND OWNER'S STATEMENT SHALL BE FILED WITH THE COMMISSIONER.

70. EXHAUST SHALL TERMINATE 10'0" MIN. ABOVE SIDEWALK AND FROM ANY WINDOW OR ANOTHER BUILDING OR FROM ANY WINDOW OR A RESIDENTIAL PORTION OF THE SAME BUILDING.

71. VEHICULAR RAMPS SHALL NOT EXCEED A GRADIENT OF - IN 7 AND THEIR SURFACE SHALL BE NON-SLIP. PROVIDE A 30 FT. MINIMUM LANDING LENGTH AT DISCHARGE POINT AT STREET LEVEL, WITHIN THE STREET LINE.

72. INTERMITTENT FLASH TYPE RED LIGHT WHICH WILL OPERATE AT ALL TIMES TO BE PROVIDED ON THE EXTERIOR AT GARAGE ENTRANCE.

73. A CONSPICUOUS SIGN READING "CAR MUST COME TO A FULL STOP AT DOOR" TO BE PROVIDED ON GARAGE SIDE OF GARAGE ENTRANCE.

74. PROVIDE A SAFETY TYPE WASTE CAN AT EACH ENTRANCE OR EXIT DOOR.

75. PROVIDE STANDARD TYPE FIRE PAILS FILLED WITH CLEAN SAND IS PAILS FOR EACH 2,500 SQ. FT. OF GARAGE AREA) LOCATED AS DIRECTED TO INSURE AGAINST SHARGE BY CARS.

76. PROVIDE PROPER STEEL BARRICADES FOR SPRINKLER LINES, VALVES, HORIZONTAL WIRING AND ALL OTHER VERTICAL LINES, AS PROTECTION FROM CARS.

77. COLUMNS IN GARAGE AREA TO BE PROTECTED BY IRON ANGLE GUARDS CAPABLE TO RESIST A LATERAL LOAD OF 2,500 POUNDS AT A POINT 2'0" ABOVE THE FLOOR LINE.

78. MASONRY MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF RS 10-1. SECTION 3, AND TO COMPLY WITH C26-1003.2 FOR IDENTIFICATION. WARRANT FOR EXTERIOR CAVITY WALLS TO HAVE TYPE "N" MORTAR.

79. MASONRY FOR INTERIOR PARTITIONS & DUCT ENCLOSURES TO HAVE TYPE "N" OR "O" MORTAR. BRICK TO BE GRADE "MM", CONCRETE UNITS TO BE GRADE "G". FORMS 10A & 10J TO BE FILED.

80. ALL MASONRY LOAD BEARING AND NON-LOAD BEARING WALLS SHALL BE BONDED IN ACCORDANCE WITH SECTION 7, RS 10-1.

81. EQUIPMENT USE PERMITS: INSPECTIONS & TEST PERMITS WILL BE OBTAINED FOR USE OF THE FOLLOWING EQUIPMENT:
A) AIR CONDITIONING AND VENTILATION SYSTEM
B) ELEVATORS
C) HEATING SYSTEM
D) PLUMBING AND GAS PIPING
E) STANDPIPE SYSTEMS
F) SPRINKLER SYSTEMS
EQUIPMENT REQUIRING USE PERMITS SHALL BE INSPECTED AND TESTED TO DETERMINE PROPER FUNCTIONING AND COMPLIANCE WITH THE BUILDING CODE AND OTHER APPLICABLE LAWS AND REGULATIONS. ALL INSPECTIONS AND TEST SHALL BE CONDUCTED IN ACCORDANCE WITH REQUIRED INSPECTION AND TEST PROCEDURES. AND SIGNED COPIES OF REQUIRED INSPECTIONS AND TEST REPORTS SHALL BE FILED WITH THE DEPARTMENT OF BUILDINGS AND FORM PART OF THE PERMIT ACCOMPANYING THE PERMIT APPLICATION. ON THE CASE OF HEATING SYSTEM A SIGNED STATEMENT BY AN ARCHITECT OR ENGINEER SHALL BE SUBMITTED WITH THE PERMIT APPLICATION, STATING THAT THE SYSTEM HAS BEEN DESIGNED AND FUNCTIONS SATISFACTORILY , AND THAT TO THE BEST OF KNOWLEDGE AND BELIEF THE SYSTEM WILL MEET THE CODE TEMPERATURE REQUIREMENT.

82. MECHANICAL VENTILATION PLANS WILL BE FILED WITH THE DEPT. OF BLDGS UNDER AN AMENDMENT.

83. EXTERIOR MECHANICAL EQUIPMENT IN YARD OR COURT OR ON A ROOF OR WHERE THE EQUIPMENT OPENS TO THE EXTERIOR OF THE BUILDING SHALL CONFORM WITH SEC. C26-1208.3 (4) AND TABLE 12-4 BLDG. CODE.

84. PROVIDE GUARD RAILS OR FENCE AT EXCAVATIONS C26-1903.2 (b)

85. STAIRS AND ELEVATORS SHOWN WILL BE PROVIDED AS PER SUB ARTICLES 805.0 AND 808.0

86. ALL STAIR DOORS ARE 3'-0" WIDE, 1 1/2 HOURS. F.P.S.C. AND HAS A CAPACITY OF 180 PERSONS AS PER TABLE 6-1

87. ALL FLOORS ARE MULTIPLE TENANT FLOORS AND WILL COMPLY WITH LOCAL LAW 5/73.

88. A MISCELLANEOUS APPLICATION WILL BE FILED FOR SPRINKLERS AND STANDPIPE SYSTEM.

CONTROLLED INSPECTION NOTES

FORMS 10A- 10B- 10C- 10D- 10E & 10F TO BE FILED

I. CONCRETE

1. THE INSPECTION OF MATERIALS FOR ALL STRUCTURAL ELEMENTS PROPORTIONED ON THE BASIS OF CALCULATED STRESSES 70 PERCENT OR GREATER OF BASIC ALLOWABLE VALUES. TABLE 10-1. ARTICLE 10.

2. THE MAKING OF PRELIMINARY TESTS OF CONCRETE.(C26-1004.31(a)(3).

3. QUALITY CONTROL AND INSPECTION AT THE BATCH PLANT EXCEPT FOR CONCRETE PROPORTIONED ON THE BASIS OF PRELIMINARY TESTS. C26-1004.31(a) (B) AND C26-1004.31(a) (B).

4. ACTUAL PREPARATION OF CYLINDERS FOR STRENGTH TESTS C26-1004. 31(a) (1).

5. THE CHECKING OF ALL SAMPLES RECEIVED FOR THE PURPOSE OF STRENGTH TESTS FOR SLUMP, AIR CONTENT, UNIT WEIGHT, AND TEMPERATURE IN ACCORDANCE WITH RS 10-3. C26-1004.31(a) (2).

6. THE MEASUREMENT OF FORMS FOR SIZE AND DIMENSIONS OF MEMBERS. C26- 1004.31(b) (3).

7. THE CHECKING OF SIZES AND POSITION OF REINFORCEMENT C26-1004. 31(c) (3).

8. THE INSPECTION OF PLACEMENT OF CONCRETE AND THE RECORDING OF AND COMPLIANCE WITH BUILDING CODE PROVISIONS ATTESTED TO BY:

(A) TEMPERATURES

(B) PROTECTIONS AGAINST EXCESSIVE TEMPERATURES

(C) CURING

(D) ERECTION AND CONNECTION OF PRECAST MEMBERS

(E) AMOUNT OF WATER ADDED IN FIELD

(F) TENSIONING OF ALL PRESTRESSED ELEMENTS. C26-1004.31(a) (2).

(G) PREPLACED AGGREGATE. (C26-1004.111)

9. INSPECTION FOR THE PROPER USE OF ADMIXTURES. BATCH PLANT INSPECTION REQUIRED FOR ALL ADMIXTURES. OTHER THAN AIR-ENTRAINING AND WATER-REDUCING ADMIXTS. C26-1004.6.

II. STEEL

1. INSPECTION OF WELDING OPERATIONS WHERE STRESSES IN WELDS ARE 50% OR MORE OF BASIC ALLOWABLE VALUES. TABLE 10-2.

2. CHECK OF WELDERS' LICENSES OR QUALIFICATIONS IN ACCORDANCE WITH C26-1005.3(2). C26-1005.3(4).

3. INSPECTION FOR THE TENSIONING OF HIGH STRENGTH BOLTS WHERE STRESSES IN BOLTS ARE 50% OR MORE OF BASIC ALLOWABLE VALUES. TABLE 10-2.

III. ALUMINUM

1. INSPECTION OF WELDING OPERATIONS WHERE STRESSES IN WELDS ARE 50 MORE OF BASIC ALLOWABLE VALUES. TABLES 10-2.

2. CHECK OF WELDERS' LICENSES OR QUALIFICATIONS IN ACCORDANCE WITH C26-1007.3(2). C26-1007.3(4). AND BSA CAL. NO.-13-59 VOL.11 AND AS AMENDED JAN. 15, 1974.

IV. FOUNDATIONS

1. INSPECTION OF BORING OPERATIONS. C26-1112.3

2. INSPECTION OF SUBGRADE FOR FOOTINGS, FOUNDATION PIERS, AND FOUNDATION WALLS (NOTIFICATION TO DEPARTMENT AT LEAST 2 DAYS PRIOR TO INSTALLATION REQUIRED UNLESS DEPARTMENT INSPECTION IS WAIVED UNDER C26-120.51). C26-1112.5

3. INSPECTION OF UNDERPINNING OPERATIONS. CONSTRUCT-ON AND EXCAVATION OF TEMPORARY OR PERMANENT COFFERDAMS. CA-1502.6. BRACED EXCAVATED SURFACES AND OTHER CONSTRUCTIONS OR EXCAVATIONS AFFECTING SUPPORT OF ADJACENT PROPERTIES OR BUILDINGS. (PLANS REQUIRED). C26-1112.6

V. FIRE PROTECTION

1. INSPECTION OF THE INSTALLATION OF ALL REQUIRED FIRE STOPPING. C26-604.7(g).

2. INSPECTION OF THE INSTALLATION OF ALL SPRAY-ON FIREPROOFING (C26-502.53)

3. MECHANICAL VENTILATION, AIRCONDITIONING, AND REFRIGERATION.

1. INSPECTION AND TESTS OF A REQUIRED VENTILATING SYSTEM. C(26-1301.2(a).

2. INSPECTION AND TESTS OF A REFRIGERATION SYSTEM. (ENGINEER OR ARCHITECT DOES NOT HAVE TO BE IN THE EMPLOY OF THE OWNER). C26-1301.41(a)

VII. FIRE EXTINGUISHING EQUIPMENT

1. INSPECTIONS AND TESTS OF STANDPIPES (SUBJECT TO CONTROLLED INSPECTION IF APPLICANT DOES NOT CHOOSE TO HAVE TESTS WITNESSED BY REPRESENTATIVE OF DEPARTMENT).

2. INSPECTION AND TESTS OF SPRINKLER AND STAND PIPES SYSTEM (SUBJECT TO CONTROLLED INSPECTION IF APPLICANT DOES NOT CHOOSE TO HAVE TEST WITNESS BY REPRESENTATIVE OF DEPARTMENT). C26-1705.1A.C26-1705.2(1C)

VIII. MATERIALS, ASSEMBLIES FORMS AND METHODS OF CONSTRUCTION

1. CODE TEST METHOD WHENEVER THE BUILDING CODE PRESCRIBES A METHOD OF TESTING SUCH TESTS SHALL BE MADE UNDER THE SUPERVISION OF AN ARCHITECT OR AN ENGINEER, OR BY A TESTING SERVICE OR LABORATORY ACCEPTABLE TO THE COMMISSIONER. C26-105.2(A) (1).

IX. INSPECTION DURING PROGRESS OF WORK

1. THE COMMISSIONER MAY ACCEPT SIGNED STATEMENTS BY ARCHITECTS AND ENGINEERS AND SUPERVISING INSPECTION AND TEST REPORT WITHOUT VERIFYING INSPECTION OR TEST BY DEPARTMENT INSPECTORS. C26-130.5.

X. FINAL INSPECTION

1. THE ARCHITECT, ENGINEER, OR OTHER PERSON WHO SUPERVISED OR SUPERINTENDED THE WORK IS REQUIRED TO BE PRESENT AT FINAL INSPECTION BY DEPARTMENT. C26-120.6.

RULES AND REGULATIONS FOR PROCEDURES TO BE USED FOR THE DESIGN AND INSTALLATION OF CURTAIN WALL SYSTEMS ADOPTED MAY 28,1973) AND LOCAL LAW #10/68

1) CONTRACTOR TO SUBMIT SHOP DWGS. TO ARCHITECT/ENGINEER OF RECORD.

2) ARCH./P.E. TO CHECK SHOP DWGS. & COMPUTATIONS AND SHALL CERTIFY THIS APPROVAL TO DEPT. OF BUILDINGS.

3) APPROVED SHOP DWGS. TO BE IN FIELD.

4) CONTRACTOR TO CERTIFY THAT METALS, GASKETS, ALLOYS ARE IN CONFORMANCE.

This Building Complies With all Portions of the New York City Building Code.

Construction Classification - 1B
Fire-Resistance Rating - 3 Hours
Office Building - Occ. Group 'E' Use Gr. 'G'.
Atrium - Occ. Gr. 'F-3'
Mechanical Space - Occ. Gr. 'D-2'

RECEIVED
JUN 15 1977
W-DIV. 37
BUILDINGS APPLICATION

DATE	REVISIONS
6-1-87	REVISED WATER SUPPLY

CONSTRUCTION NOTES

7
WORLD TRADE CENTER
47 STORY OFFICE BUILDING
BOUNDED BY
VESEY STREET AND BARCLAY STREET
WASHINGTON STREET AND WEST BROADWAY
NEW YORK NEW YORK

EMERY ROTH & SONS P.C.
ARCHITECTS
645 THIRD AVENUE NEW YORK, N.Y. 10022

THE OFFICE OF
IRWIN G. CANTOR P.C.
STRUCTURAL ENGINEERS
910 THIRD AVENUE NEW YORK, N.Y. 10022

SYSKA & HENNESSY
ENGINEERS
11 WEST 42ND STREET NEW YORK, N.Y. 10036

DATE: 10-10-86 SCALE: NONE

DWG.
PA-0

706-P

GENERAL CONSTRUCTION NOTES FOR OFFICE BUILDING -- CLASS 1B 13 HOUR BUILDING: THE ENTIRE BUILDING WILL BE SPRINKLERED IN COMPLIANCE WITH ARTICLE 17

1. ALL MATERIALS, ASSEMBLIES FORMS AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF SECTION C26-106.2.

2. ALL DIMENSIONS ARE TO THE ROUGH MASONRY OR METAL STUDS.

3. ADDITIONAL NOTICES MAY BE REQUIRED TO BE GIVEN BY THE DEPARTMENT OF BUILDINGS DEPUTY USED BY THE COMMISSIONER OF THE DEPARTMENT OF BUILDINGS, BOROUGH OF MANHATTAN, WHICH IS 9.78 FT ABOVE U.S. COAST AND GEODETIC DATUM (MEAN SEA LEVEL, SANDY HOOK, N.J.).

4. AT LEAST 24 HOUR WRITTEN NOTICE SHALL BE GIVEN TO THE COMMISSIONER BEFORE COMMENCEMENT OF WORK. (C26-116.5)

5. FIVE DAYS PRIOR NOTICE SHALL BE GIVEN TO ADJOINING LOT OWNERS AFFECTED BY FOUNDATION, EARTHWORK OR DEMOLITION WORK. (C26-112.3 & C26-113.3)

6. BORING DIAGRAM WILL BE FILED BEFORE CONSTRUCTION IS STARTED AS PER SUB ARTICLE 1101.0 ADMINISTRATIVE CODE.

7. AN ACCURATE AND COMPLETE FINAL SURVEY, MADE BY A LICENSED SURVEYOR SHALL BE SUBMITTED AFTER COMPLETION OF THE BUILDING. (C26-121.7)

8. THE FOLLOWING ITEMS SHALL BE SUBJECT TO CONTINUED INSPECTION AS PER SECTION C26-105.2.
A) TEST BORINGS (C26-1112.2)
B) INSPECTION OF SUBGRADE PRIOR TO CONSTRUCTION (C26-1112.3)
C) UNDERPINNING AND BRACED EXCAVATED SURFACE SHORING, EXTENDING MORE THAN 10 FEET BELOW GRADE (C26-1112.8)
D) PILING WORK
E) FIRESTOPPING (C26-604.7b)
F) CONCRETE MATERIALS FOR STRUCTURAL ELEMENTS PROPORTIONED ON THE BASIS OF CALCULATED STRESSES FOR OR GREATER OF BASIC ALLOWABLE VALUES (C26-1004.0)
G) STEEL WELDING OPERATIONS AND TENSIONING OF HIGH STRENGTH BOLTS (TABLE 10-2)
H) PLACING OF CONCRETE (TABLE 10-2)
I) RE INFORCED MASONRY (TABLE 10-2)
J) UNREINFORCED MASONRY (TABLE 10-2)
K) SPRAY-ON FIREPROOFING (C26-604.2(2))

9. NO WORK TO BE DONE BEYOND BUILDING LINE WITHOUT APPROVAL OF THE DEPARTMENT OF TRANSPORTATION.

10. SIDEWALKS TO BE LAID IN ACCORDANCE WITH RULES OF THE DEPARTMENT OF TRANSPORTATION.

11. ALL PAVED WALKS, SURFACES AND AREAWAYS WILL BE DRAINED ADEQUATELY WITHIN THE SITE.

12. WHERE PIPES, WIRES, CONDUITS, DUCT, ETC., PIERCE FIRE PROTECTION OF NON-FIRE RESISTIVELY ENCASED STRUCTURAL MEMBERS, SUCH PENETRATION SHALL NOT EXCEED 25% OF ANY ONE FACE OF SUCH PROTECTION AND SHALL BE CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS OR PLATES (C26-502.2b).

13. CEILINGS THAT CONTRIBUTE TO THE REQUIRED FIRE-RESISTANCE RATING OF A FLOOR OR ROOF ASSEMBLY SHALL BE CONTINUOUS BETWEEN FIRE DIVISIONS, FIRE SEPARATIONS OR VERTICAL PARTITION HAVING THE SAME FIRE RESISTANCE RATING AS THE CEILING. CONCEALED SPACE ABOVE SUCH CEILINGS, UNLESS SPRINKLERED SHALL BE FIRESTOPPED INTO AREAS NOT EXCEEDING 3,000 SQUARE FEET, AND PROTECTED BY SELF-CLOSING OPENING PROTECTIVES. (C26-502.5)

14. DUCTS, PIPES, AND CONDUITS PASSING THROUGH RATED CONSTRUCTION SHALL HAVE SPACES NOT EXCEEDING 1/2 INCH PACKED WITH FIREPROOF MATERIAL OF MINERAL WOOD AND CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS. IMMEDIATE SQUARE FEET OF WALL OR FLOOR AREA, UNLESS PROTECTED BY RATED SELF-CLOSING DEVICES (C26-504.5)

15. FIRE DIVISIONS SHALL COMPLY WITH PROVISIONS OF SECTION C-26-504.2 AND SHALL BE CONTINUOUS THROUGH ANY CONCEALED SPACE IN FLOOR OR ROOF CONSTRUCTION.

16. DIFFERENT TENANT APARTMENTS, STORES, OFFICES, ETC., NOT SEPARATED BY FIRE DIVISIONS, SHALL BE SEPARATED BY FIRE SEPARATIONS, BUT NOT LESS THAN 1 HOUR SEPARATIONS SHALL CONTINUE THROUGH CONCEALED SPACES ABOVE (C26-504.3)

17. OPENINGS IN FIRE DIVISIONS AND SEPARATIONS TO COMPLY WITH SECTION C26-504.4.

18. CONCEALED SPACES WITHIN PARTITIONS, WALLS, FLOORS, ROOFS, STAIRS, FURRING, PIPE SPACES, COLUMN ENCLOSURES ETC., SHALL BE FIRE STOPPED (EXCEPT WHERE CONCEALED SPACE IS SPRINKLERED) WITH NON-COMBUSTIBLE MATERIAL THAT CAN BE SHAPED, FITTED AND PERMANENTLY SECURED IN POSITION (C26-504.7)

19. FINISH FLOORING IN ALL EXITS SHALL BE OF NON-COMBUSTIBLE MATERIAL. (C26-504.13)

20. ALL EXITS SHALL BE KEPT READILY ACCESSIBLE AND UNOBSTRUCTED AT ALL TIMES.

21. STAIRS SHALL HAVE HANDRAILS ON EACH SIDE (EXCEPT THAT STAIRS LESS THAN 44 INCHES WIDE SHALL HAVE A HANDRAIL ON ONE SIDE ONLY). HANDRAILS SHALL PROVIDE A FINGER CLEARANCE OF 1 1/2 INCHES, AND SHALL PROJECT NOT MORE THAN 3 1/2 INCHES INTO REQUIRED STAIR WIDTH. STAIR MORE THAN 88 INCHES WIDE SHALL HAVE INTERMEDIATE HANDRAILS. HEIGHT OF HANDRAILS SHALL BE BETWEEN 30 INCHES AND 34 INCHES ABOVE THE TREAD NOSING. HANDRAILS SHALL BE RETURNED TO WALLS AND POSTS AT THEIR TERMINATIONS. MATERIALS OF HANDRAILS SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 150. HANDRAILS SHALL BE DESIGNED TO RESIST A SIMULTANEOUS APPLICATION OF A LATERAL FORCE OF 40#/L.F. AND VERTICAL LOAD OF 50#/L.F. LANDINGS AND PLATFORMS SHALL BE ENCLOSED ON SIDES BY WALL OR RAILINGS. AT LEAST 1'-0" HIGH. RISERS SHALL BE MAXIMUM 7-3/4" HIGH, TREAD 9 1/2" WIDE. EXCLUSIVE OF NOSING AND THE SUM OF 2 RISERS PLUS ONE TREAD EXCLUSIVE OF NOSING SHALL BE NOT LESS THAN 24 NOR MORE THAN 25 1/2. STAIRS WILL BE CONSTRUCTED OF STEEL WITH CONCRETE TREADS AND PLATFORMS. STRINGERS SHALL NOT BE LESS THAN 3/16" THICK. RISERS, TREADS AND LANDING MATERIAL SHALL NOT BE LESS THAN 12 GAUGE IRON. AND SHALL CONFORM TO SECTION C26-604.8.

22. TREADS AND LANDINGS SHALL BE BUILT OF/OR SURFACED WITH NON-SKID MATERIALS.

23. ILLUMINATION OF AT LEAST 5 FOOT CANDLES MEASURED AT THE FLOOR LEVEL SHALL BE MAINTAINED CONTINUOUSLY, DURING OCCUPANCY, IN EXITS AND THEIR ACCESS FACILITIES. (C26-905.1)

24. EXIT LIGHTS AND SIGNS WILL BE PROVIDED AT ALL REQUIRED EXIT STAIRS AND PASSAGES WITH SEPARATE ELECTRIC CIRCUIT TAKEN OFF AHEAD OF MAIN SWITCH-BOARD, AND CONFORM TO SUB ARTICLE 606.0.

25. LOCATION OF EVERY EXIT OR EVERY FLOOR SHALL BE CLEARLY INDICATED BY EXIT SIGNS PLACED, IF REQUIRED, AT AN ANGLE WITH EXIT OPENING. INSTALL DIRECTIONAL SIGNS TO SERVE AS GUIDES FROM ALL PORTIONS OF THE CORRIDOR OR FLOOR. (C26-606.1)

26. EXIT SIGNS SHALL BE INTERNALLY LIGHTED, HAVING AN INITIAL BRIGHTNESS OR LETTERS OF AT LEAST 25 FEET LAMBERTS. LETTERS SHALL BE RED, THE BACK-GROUND SHALL BE WHITE. LETTERS SHALL BE BLOCK LETTERING, AT LEAST 4 1/2" HIGH, WITH 9/10" STROKES.

27. ALL DOORS TO REQUIRED EXIT STAIRS SHALL CONFORM TO SECTION C26-604.1

28. HEADROOM IN EXIT STAIRS SHALL NOT BE LESS THAN 7'0" CLEAR, (MIN) (C26-604.8(C))
HEADROOM IN CORRIDORS SHALL CONFORM TO SECTION C26-604.2
HEADROOM IN EXIT PASSAGEWAYS SHALL CONFORM TO SECTION C26-604.3.

29. DOORS AND ASSEMBLIES SHALL HAVE THE FOLLOWING FIRE-RESISTIVE RATINGS:
DOORS TO STAIRS ..... 1 1/2 HOUR
DOORS TO ELEVATOR SHAFT ..... 1 1/2 HOUR
ALL ABOVE DOORS SHALL BEAR LABEL INDICATING SAME TYPE AS APPROVED BY BOARD OF STANDARDS AND APPEALS. ALL OTHER DOORS TO BE OF NONCOMBUSTIBLE MATERIAL.
SEE DOOR SCHEDULE ON DWG(S) FOR ALL DOOR BOSS LOCATIONS, AND FIRE RATINGS.

30. ALL WIRE GLASS IN RATED DOORS AND WINDOWS WILL BE OF A TYPE APPROVED BY THE B.S.A.

31. ALL OPENINGS TO ELEVATOR SHAFTS WILL BE PROTECTED WITH DOORS HAVING A 1 1/2 HOUR RATING. ALL DOORS TO BE SELF-CLOSING AND AT OPTION OF THE OWNER PROVIDED WITH A VISION PANEL OF APPROVED TYPE WIRE GLASS CLASS.

32. CORRIDORS AND EXITS PASSAGEWAYS SHALL HAVE A CLEAR HEIGHT OF 7'-6" FOR AT LEAST 7'0" OF THE FLOOR AREA WITH NO POINT LESS THAN 7'-0" IN HEIGHT. PROJECTIONS BELOW THE CEILING SHALL NOT OBSTRUCT FULL VIEW OF EXIT SIGNS. (C26-604.2e)

33. ALL DOORS SHALL BE MIN. 6'0" HIGH UNLESS OTHERWISE NOTED.

34. ALL ELEVATOR DOORS SHALL HAVE ELECTRIC INTERLOCKS IN ACCORDANCE WITH REFERENCE STANDARD RS-8-1 SAFETY CODE.

35. EXIT DOORS SHALL BE READILY OPENABLE AT ALL TIMES FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE. DOORS OPENING INTO UNATTENDED ENCLOSED STAIR SHALL BE LOCKED ON THE STAIR SIDE ABOVE THE STREET FLOOR EXCEPT THAT AT INTERVALS OF 4 STORIES OR LESS DOORS SHALL BE OPENABLE FROM THE STAIR SIDE WITHOUT THE USE OF THE KEY TO PERMIT REENTRY AT SUCH FLOOR, AND EXCEPT THAT DOORS MAY BE LOCKED TO PREVENT ACCESS TO THE STAIRS FROM THE OUTDOORS AT THE STREET LEVEL.
9 NORMAL 36-INCH TREAD IN THE STAIR SHALL BE TO BE RESTRICTED TO EVERY FOURTH FLOOR. THE LOCKED DOORS SHALL BE EQUIPPED WITH A RELEASE SYSTEM COMPLYING WITH THE REQUIREMENTS OF CODE SECTION C26-604.4(10) b,3 & b,4 & REFERRED TO REFERENCE STANDARDS.

36. NO PIPES, MEDICINE CABINETS, ETC. SHALL ENCROACH UPON FIRE RATED PARTITIONS ENCLOSING PUBLIC CORRIDORS, STAIRS, ELEVATOR SHAFTS OR VENT SHAFTS.

37. ALL TOILETS SHALL HAVE TILE FLOORS AND WAINSCOTE NOT LESS THAN 6" HIGH.

38. ALL INTERIOR TOILETS SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH WITH A.C. C26-1207.3

39. SUSPENDED CEILINGS SHALL COMPLY WITH METAL RUNNERS, FURLING AND HANGERS AS PER A.C. C26-504.12 FOR CL. 1-B F. P. BUILDINGS.

40. EXTERIOR STONE OR ASHLAR FACED WALLS SHALL COMPLY WITH REFERENCE STANDARD RS-3-1.

41. ALL LOT LINE WINDOWS WILL HAVE AUTOMATIC CLOSING ASSEMBLIES AND HAVE 3/4 HR. RATINGS AS PER SEC. C26-505.1

42. ALL CLEANING OF WINDOWS WILL BE IN CONFORMITY WITH THE WINDOW CLEANING CODE.

43. WHERE GLASS FACING IS USED THICKNESS AND AREA COMPLIES WITH SUB-ARTICLE 1011.0.

44. CONCRETE BLOCK WILL COMPLY WITH REFERENCE STANDARD RS 10.1

45. CONCRETE BLOCKS SHALL BE OF TYPE APPROVED BY BOARD OF STANDARDS AND APPEALS.

46. ALL MASONRY SHALL BE LAID WITH MORTAR CONSISTING OF ONE (1) PART PORTLAND CEMENT, ONE (1) PART LIME, AND SIX (6) PARTS SAND AS PER RS10.

47. ELEVATOR SHAFTS SHALL BE ENCLOSED WITH 3" SOLID GYPSUM BLOCKS, 3" HOLLOW GYPSUM BLOCK PLASTERED ONE SIDE, 4" SOLID CONCRETE BLOCK, OR 8IN WALL CONSTRUCTION HAVING A FIRE RESISTIVE RATING OF 2 HRS.

48. INTERIOR REQUIRED STAIR SHALL BE ENCLOSED WITH HOLLOW GYPSUM BLOCK 3" THICK PLASTERED ONE SIDE, 3" SOLID GYPSUM BLOCK, 4" SOLID CONCRETE BLOCK, OR 8IN WALL CONSTRUCTION HAVING A FIRE RESISTIVE RATING OF 2 HRS.

49. ALL VENT DUCT SHAFTS SHALL BE ENCLOSED WITH 4" SOLID CONCRETE BLOCK OR ANY 2 HOUR ENCLOSURE 1-1/2 HOUR AUTOMATIC CLOSING FIRE DAMPERS TO BE INSTALLED IN VENT DUCTS WHEN THEY PIERCE PUBLIC CORRIDORS.

50. WHERE REQUIRED, AREAS ON 1ST FLOOR TO BE SPRINKLERED AS PER SECTION C26-604.3.

51. MARBLE VENEER TO BE APPLIED ACCORDING TO RULES OF THE BOARD OF STANDARDS AND APPEALS.

52. EXTERIOR PANEL WALLS TO BE ANCHORED TO COLUMNS OF GALVANIZED METAL ANCHORS NOT LESS THAN 1/4" X 3/4" HOOKED AROUND FLANGES OF COLUMNS.

53. FACE BRICK ON EXTERIOR WALLS WILL BE BONDED TO BACK-UP BLOCK WITH 18GA. COPPER OR ZINC CORRUGATED WALL TIES 7/8" X 7" FOR THE SPANDREL WALL. THE WALL TIES WILL BE PLACED EVERY FOUR COURSES VERTICALLY AND ONE FOOT (1'-) APART HORIZONTALLY. R.S. E.A. APPROVED TIES.

54. EXTERIOR WALL COLUMNS (COLUMN ENCASED IN MASONRY WALLS) SHALL BE FIRE-PROOFED ON THE EXTERIOR SIDE WITH 2-2/4" BRICK AND ON THE INTERIOR SIDE WITH 2" SOLID GYPSUM, 3" HOLLOW GYPSUM, 3" CONCRETE BLOCK OR SPRAY-ON F.P. ALL ABOVE SHALL BE PLASTERED WITH 1/2" GYPSUM PLASTER OR 5/8" GYPSUM WALLBOARD. EXTERIOR SIDE OF COLUMNS TO BE PAINTED WITH WATERPROOF MASTIC.

55. INTERIOR COLUMNS SHALL BE FIREPROOF WITH MATERIALS AND HAVE RATING CONFORMING WITH SECTION C26-313.3, RS 3-1.

56. BEAMS AND GIRDERS SHALL BE FIREPROOFED WITH 2" GRADE 1 PORTLAND CEMENT CONCRETE, SHOTCRETE, OR SPRAY-ON F.P. OR OTHER MATERIALS RENDERING A 2 HR. FIRE RATING.

57. A STANDPIPE SYSTEM WILL BE PROVIDED IN THE BUILDING UNDER A SEPARATE APPLICATION. LOCATION OF STANDPIPES, ETC., WILL COMPLY WITH PROVISIONS OF SUB-ARTICLE 1702.0 OF B.C.

58. ALL OPEN AREAS SHALL BE DRAINED AS PER REF. STD 1B, P110.2

59. SEPARATE ELEVATOR APPLICATION WILL BE FILED.

60. PROVIDE VIEWING MIRRORS IN ELEVATORS AS PER SECTION B26-20.03 M.M.C. AND DEPT. RULES AND REGULATIONS.

61. FIRE PREVENTION APPLICATION WILL BE FILED IF REQUIRED FOR ALL INSTALLATIONS.

62. WOOD SHALL BE USED ONLY WHERE PERMITTED BY C26-513.5. WOOD REQUIRED TO BE F.PREPROOFED SHALL BE TESTED IN ACCORDANCE WITH REFERENCE STANDARDS RS 5-2 AND RS 5-4.

63. ROOFING TO BE AS PER SECTION C26-505.7, AND TO BE OF TYPE "A" & TO COMPLY WITH RS 5-6 & 5-10.

64. TEMP. OF BUILDING TO BE MAINTAINED AS PER C26-1204.1, AND RS 12-1 AND TABLE 12-1.

65. ROOM 7 INCHES TO CONFORM TO C26-604.10 AND TABLE 2-6. EXITS TO HAVE CLASS "A" FINISHES & A SMOKE DEVELOPED RATING OF 50.
FURRING AREAS TO HAVE CLASS B FINISHES.
ROOMS IN OCCUPANCY GROUP C TO HAVE CLASS C FINISHES.
CORRIDORS IN OCCUPANCY GROUP C TO HAVE CLASS B FINISHES & A SMOKE DEVELOPED RATING OF 25 AND TESTED/TF AS PER C26-604.10(B)
66. HOUSE NUMBERS WILL BE PROVIDED AS PER BOROUGH PRESIDENTS RULES AND REGULATIONS

67. FLOOR NUMERALS WILL BE PROVIDED ON ALL FLOORS, IN STAIR HALLS AND IN PUBLIC HALLS NEAR ELEVATORS AS PER DEPARTMENT RULES AND REGULATIONS.

68. GARAGE SHALL BE USED EXCLUSIVELY FOR THE PARKING OF VEHICLES HAVING FUEL STORAGE TANKS OF 20 GAL. CAPACITY OR LESS. NO REPAIR, BODY WORK OR PAINTING OF VEHICLES MAY BE CONDUCTED FOR ANY ANY GASOLINE, OIL, ETC. BE DISPENSED.

69. GARAGE SHALL BE PROVIDED WITH MECHANICAL VENTILATION AS PER SEC. C26-708.7. AIR SUPPLY SHALL BE TAKEN FROM AN UNCONTAMINATED SOURCE. EXHAUST OUTLETS SHALL BE LOCATED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE-13 WITH ONE-HALF OF THEM LOCATED 6 IN. ABOVE FLOOR LEVEL. AN INSPECTION AND TEST OF THE COMPLETED SYSTEM SHALL BE MADE AS PER SEC. C26-1301.2 AND OWNER'S STATEMENT SHALL BE FILED WITH THE COMMISSIONER.

70. EXHAUST SHALL TERMINATE 10'0" MIN. ABOVE SIDEWALK AND FROM ANY WINDOW IN ANOTHER BUILDING OR FROM ANY WINDOW IN A RESIDENTIAL PORTION OF THE SAME BUILDING.

71. VEHICULAR RAMPS SHALL NOT EXCEED A GRADIENT OF 1 IN 7 AND THEIR SURFACE SHALL BE NON-SLIP. PROVIDE A 20 FT. MINIMUM LANDING (LEVEL) AT DISCHARGE POINT AT STREET LEVEL, WITHIN THE STREET LINE.

72. INTERMITTENT FLASH TYPE RED LIGHT WHICH WILL OPERATE AT ALL TIMES TO BE PROVIDED ON THE EXTERIOR AT GARAGE ENTRANCE.

73. A CONSPICUOUS SIGN READING "CAR MUST COME TO A FULL STOP AT DOOR" TO BE PROVIDED ON GARAGE SIDE OF GARAGE ENTRANCE.

74. PROVIDE A SAFETY TYPE WASTE CAN AT EACH ENTRANCE OR EXIT DOOR.

75. PROVIDE STANDARD TYPE FIRE PAILS FILLED WITH CLEAN SAND (6 PAILS FOR EACH 2,500 SQ. FT. OF GARAGE AREA) LOCATED AS DIRECTED TO INSURE AGAINST DAMAGE BY CARS.

76. PROVIDE PROPER STEEL BARRICADES FOR SPRINKLER LINES, VALVES, HORIZONTAL MAINS AND ALL OTHER VERTICAL LINES, AS PROTECTION FROM CARS.

77. COLUMNS IN GARAGE AREA TO BE PROTECTED BY IRON ANGLE GUARDS CAPABLE TO RESIST A LATERAL LOAD OF 2,000 POUNDS AT A POINT 2'0" ABOVE THE FLOOR/GRADE.

78. MASONRY MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF RS 10-1, SECTION 3, AND TO COMPLY WITH C26-1003.2 FOR IDENTIFICATION. MASONRY FOR EXTERIOR CAVITY WALLS TO HAVE TYPE "M" MORTAR.

79. MASONRY FOR INTERIOR PARTITIONS & DUCT ENCLOSURES TO HAVE TYPE "M" OR "S" MORTAR. BRICK TO BE GRADE "SW". CONCRETE UNITS TO BE GRADE "S". FURNISH & TEST AS PER RS 10-2 TO BE FILED.

80. ALL MASONRY LOAD BEARING AND NON-LOAD BEARING WALLS SHALL BE BONDED IN ACCORDANCE WITH SECTION 7, RS 10-1.

81. EQUIPMENT AND PERMITS: INSPECTIONS & TEST PERMITS WILL BE OBTAINED FOR USE OF THE FOLLOWING EQUIPMENT
A) AIR CONDITIONING AND VENTILATION SYSTEMS
B) ELEVATORS
C) HEATING SYSTEMS
D) PLUMBING AND GAS PIPING
E) STANDPIPE SYSTEMS
F) SPRINKLER SYSTEMS
EQUIPMENT REQUIRING USE PERMITS SHALL BE INSPECTED AND TESTED TO DETERMINE PROPER FUNCTIONING AND COMPLIANCE WITH THE BUILDING CODE AND OTHER APPLICABLE LAWS AND REGULATION. ALL INSPECTIONS AND TEST SHALL BE CONDUCTED IN ACCORDANCE WITH REQUIRED INSPECTION AND TEST PROCEDURES. AND SIGNED COPIES OF REQUIRED INSPECTIONS AND TEST REPORTS SHALL BE FILED WITH THE DEPARTMENT OF BUILDINGS AND FORM PART OF THE PAPERS ACCOMPANYING THE PERMIT APPLICATION, AN THE CASE OF HEATING SYSTEM A SIGNED STATEMENT BY AN ARCHITECT OR ENGINEER SHALL BE SUBMITTED WITH THE PERMIT APPLICATION STATING THAT THE SYSTEM HAS BEEN OPERATED AND FUNCTIONS SATISFACTORILY, AND THAT TO THE BEST OF KNOWLEDGE AND BELIEF THE SYSTEM WILL MEET THE CODE TEMPERATURE REQUIREMENT.

82. MECHANICAL VENTILATION PLANS WILL BE FILED WITH THE DEPT. OF BLDGS UNDER AN AMENDMENT.

83. EXTERIOR MECHANICAL EQUIPMENT IN YARD OR COURT OR ON A ROOF OR WHERE THE EQUIPMENT OPENS TO THE EXTERIOR OF THE BUILDING SHALL CONFORM WITH SEC. C26-1208.3 (a) AND TABLE 12-4 BLDG. CODE.

84. PROVIDE GUARD RAILS OR FENCE AT EXCAVATIONS C26-1903.2 (b)

85. STAIRS AND ELEVATORS SIGNS WILL BE PROVIDED AS PER SUB ARTICLES 805.0 AND 808.0

86. ALL STAIR DOORS ARE 3'-0" WIDE, 1 1/2 HOURS, F.P.S.C. AND HAS A CAPACITY OF 180 PERSONS AS PER TABLE 6-1

87. ALL FLOORS ARE MULTIPLE TENANT FLOORS AND WILL COMPLY WITH LOCAL LAW 5/73.

88. A MISCELLANEOUS APPLICATION WILL BE FILLED FOR SPRINKLERS AND STANDPIPE SYSTEM.

CONTROLLED INSPECTION NOTES

FORMS 10A, 10B, 10C, 10D, 10E & 10F TO BE FILED

I. CONCRETE

1. THE INSPECTION OF MATERIALS FOR ALL STRUCTURAL ELEMENTS PROPORTIONED ON THE BASIS OF CALCULATED STRESSES TO PERCENT OR GREATER OF BASIC ALLOWABLE VALUES. TABLE 10-1, ARTICLE 10.

2. THE MAKING OF PRELIMINARY TESTS OF CONCRETE. C26-1004.3(a)(2).

3. QUALITY CONTROL AND INSPECTION AT THE BATCH PLANT EXCEPT FOR CONCRETE PROPORTIONED ON THE BASIS OF PRELIMINARY TESTS. C26-1004.3(a) (2) AND C26-1004.3(b) (2).

4. ACTUAL PREPARATION OF CYLINDERS FOR STRENGTH TESTS C26-1004. 3(a) (3).

5. THE CHECKING OF ALL SAMPLES RECEIVED FOR THE PURPOSE OF STRENGTH TESTS FOR SLUMP, AIR CONTENT, UNIT WEIGHT, AND TEMPERATURE IN ACCORDANCE WITH RS 10-3. C26-1004.3(a) (2).

6. THE MEASUREMENT OF FORMS FOR SIZE AND DIMENSIONS OF MEMBERS. C26- 1004.3(a) (3).

7. THE CHECKING OF SIZES AND POSITION OF REINFORCEMENT C26-1004. 3(a) (3),

8. THE INSPECTION OF PLACEMENT OF CONCRETE AND THE RECORDING OF AND COMPLIANCE WITH BUILDING CODE PROVISIONS ATTESTED TO OF:

(A) TEMPERATURES

(B) PROTECTIONS AGAINST EXCESSIVE TEMPERATURES

(C) CURING

(D) ERECTION AND CONNECTION OF PRECAST MEMBERS

(E) AMOUNT OF WATER ADDED IN FIELD

(F) TENSIONING OF ALL PRETRESSED ELEMENTS. C26-1004.3(a)(2).

(G) PREPLACED AGGREGATE. C26-1004.(1)

9. INSPECTION FOR THE PROPER USE OF ADMIXTURES. BATCH PLANT INSPECTION REQUIRED FOR ALL ADMIXTURES. OTHER THAN AIR-ENTRAINING AND WATER-REDUCING AGENTS. C26-.004.4.

II. STEEL

1. INSPECTION OF WELDING OPERATIONS WHERE STRESSES IN WELDS ARE 50% OR MORE OF BASIC ALLOWABLE VALUES. TABLE 10-2.

2. CHECK OF WELDERS' LICENCES OR QUALIFICATIONS IN ACCORDANCE WITH C26-1008.3(2), C26-1008.3(e).

3. INSPECTION FOR THE TENSIONING OF HIGH STRENGTH BOLTS WHERE STRESSES IN BOLTS ARE 50% OR MORE OF BASIC ALLOWABLE VALUES. TABLE 10-2.

III. ALUMINUM

1. INSPECTION OF WELDING OPERATIONS WHERE STRESSES IN WELDS ARE 50 MORE OF BASIC ALLOWABLE VALUES. TABLES 10-2.

2. CHECK OF WELDERS' LICENCES OR QUALIFICATIONS IN ACCORDANCE WITH C26-1007.3(2), C26-1007.3(e), AND BSA CAL. NO. 1-73-SM VOL. II AND AS AMENDED JAN. 15, 1974.

IV. FOUNDATIONS

1. INSPECTION OF BORING OPERATIONS. C26-1112.2

2. INSPECTION OF SUBGRADE FOR FOOTINGS, FOUNDATION PIERS, AND FOUNDATION WALLS NOTIFICATION TO DEPARTMENT AT LEAST 2 DAYS PRIOR TO INSTALLATION REQUIRED UNLESS DEPARTMENT INSPECTION IS WAIVED UNDER C26-120.01. C26-1112.3

3. INSPECTION OF UNDERPINNING OPERATIONS. CONSTRUCTION AND EXCAVATION OF TEMPORARY OR PERMANENT COFFERDAMS, CAISSONS, BRACED EXCAVATED SURFACES AND OTHER CONSTRUCTIONS OR EXCAVATIONS AFFECTING SUPPORT OF ADJACENT PROPERTIES OR BUILDINGS. (PLANS REQUIRED). C26-1112.8

V. FIRE PROTECTION

1. INSPECTION OF THE INSTALLATION OF ALL REQUIRED FIRE STOPPING. C26-604.7(g).

2. INSPECTION OF THE INSTALLATION OF ALL SPRAY-ON FIREPROOFING (C26-602.2(2))

VI. MECHANICAL VENTILATING, AIRCONDITIONING, AND REFRIGERATION

1. INSPECTION AND TESTS OF A REQUIRED VENTILATING SYSTEM. C-26-1301.2(a).

2. INSPECTION AND TESTS OF A REFRIGERATION SYSTEM: ENGINEER OR ARCHITECT DOES NOT HAVE TO BE IN THE EMPLOY OF THE OWNER. C26-1301.4(a)

VII. FIRE EXTINGUISHING EQUIPMENT

1. INSPECTIONS AND TESTS OF STANDPIPES (SUBJECT TO CONTROLLED INSPECTION IF APPLICANT DOES NOT CHOOSE TO HAVE TESTS WITNESSED BY REPRESENTATIVE OF DEPARTMENT).

2. INSPECTION AND TESTS OF SPRINKLER AND STAND PIPES SYSTEM (SUBJECT TO CONTROLLED INSPECTION IF APPLICANT DOES NOT CHOOSE TO HAVE TEST WITNESS BY REPRESENTATIVE OF DEPARTMENT). (C26-1703.14, C26-1702.20(f))

VIII. MATERIALS, ASSEMBLIES FORMS AND METHODS OF CONSTRUCTION

1. CODE TEST METHOD WHENEVER THE BUILDING CODE PRESCRIBES A METHOD OF TESTING SUCH TESTS SHALL BE MADE UNDER THE SUPERVISION OF AN ARCHITECT OR AN ENGINEER, OR BY A TESTING SERVICE OR LABORATORY ACCEPTABLE TO THE COMMISSIONER. C26-105.2(a) III.

IX. INSPECTION DURING PROGRESS OF WORK

1. THE COMMISSIONER MAY ACCEPT SIGNED STATEMENTS BY ARCHITECTS AND ENGINEERS AND SUPPORTING INSPECTION AND TEST REPORT WITHOUT VERIFYING INSPECTION OR TEST BY DEPARTMENT INSPECTORS. C26-120.5.

X. FINAL INSPECTION

1. THE ARCHITECT, ENGINEER, OR OTHER PERSON WHO SUPERVISED OR SUPERINTENDED THE WORK IS REQUIRED TO BE PRESENT AT FINAL INSPECTION BY DEPARTMENT, C26)10.6.

RULES AND REGULATIONS FOR PROCEDURES TO BE USED FOR THE DESIGN AND INSTALLATION OF CURTAIN WALL SYSTEMS ADOPTED MAY 20, 1973: AND LOCAL LAW 810/80

1) CONTRACTOR TO SUBMIT SHOP DWGS. TO ARCHITECT/ENGINEER OF RECORD.

2) ARCH./P.E. TO CHECK SHOP DWGS. & COMPUTATIONS AND SHALL CERTIFY THIS APPROVAL TO DEPT. OF BUILDINGS.

3) APPROVED SHOP DWGS. TO BE IN FIELD.

4) CONTRACTOR TO SENSITY THAT METALS, GASKETS, ALLOYS ARE IN CONFORMANCE.

THIS BUILDING COMPLIES WITH ALL PORTIONS OF THE NEW YORK CITY BUILDING CODE.

CONSTRUCTION CLASSIFICATION - 1B
FIRE RESISTANCE RATING - 3 HOURS
OFFICE BUILDING - OCC GROUP 'E' USE GP. 'G'
ATRIUM - OCC. GP. 'F-3'
MECHANICAL SPACE - OCC. GP. 'G-2'

F1